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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

03/03/2004

Steven R. Ormiston Ormiston & McKinney, PLLC 802 W. Bannock Street, Ste. 400 P.O. Box 298 Boise, ID 83701 EXAMINER

PERALTA, GINETTE

PAPER NUMBER

ART UNIT

DATE MAILED: 03/03/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	O. CONFIRMATION NO.	
09/503.638	02/14/2000	Kirk D. Prall	MICR131.02	6942	

TITLE OF INVENTION: RANDOM ACCESS MEMORY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	06/03/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

maintenance fee notifications.

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 7590 03/03/2004 Steven R. Ormiston Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile Ormiston & McKinney, PLLC 802 W. Bannock Street, Ste. 400 transmitted to the USPTO, on the date indicated below. P.O. Box 298 (Depositor's name) Boise, ID 83701 (Signature FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE MICR131.02 6942 02/14/2000 Kirk D. Prall 09/503.638 TITLE OF INVENTION: RANDOM ACCESS MEMORY **SMALL ENTITY ISSUE FEE PUBLICATION FEE** TOTAL FEE(S) DUE DATE DUE APPLN, TYPE \$1330 \$1330 06/03/2004 NO \$0 nonprovisional **EXAMINER** ART UNIT CLASS-SUBCLASS 2814 PERALTA, GINETTE 257-296000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single $\hfill \Box$ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer attorneys or agents. If no name is listed, no name will be printed. Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent); ☐ individual ☐ corporation or other private group entity 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): A check in the amount of the fee(s) is enclosed. □ Issue Fee Publication Fee ☐ Payment by credit card. Form PTO-2038 is attached. ☐ Advance Order - # of Copies _ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date)

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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09/503,638	02/14/2000	Kirk D. Prall	MICR131.02	6942
7.	590 03/03/2004		EXAMINER	
Steven R. Ormiston		PERALTA, GINETTE		
Ormiston & McKinney, PLLC 802 W. Bannock Street, Ste. 400			ART UNIT	PAPER NUMBER
P.O. Box 298			2814	
Boise, ID 83701			DATE MAILED: 03/03/2004	

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Application No.	Applicant(s)	,
09/503,638	PRALL ET AL.	_
Examiner	Art Unit	
Ginette Peralta	2814	
IS (OR REMAINS) CLOSED in the state of the s	n this application. If not included unication will be mailed in due cours	se. THIS
<u> 12 10/00</u> .		
y the Examiner.		
ave been received. ave been received in Application documents have been received. E" of this communication to file NMENT of this application. comitted. Note the attached EXprives reason(s) why the oath or must be submitted. erson's Patent Drawing Reviewer's Amendment / Comment of the header according to 37 CF posit of BIOLOGICAL MAT	on No d in this national stage application for the areply complying with the requirer AMINER'S AMENDMENT or NOTICE of declaration is deficient. W (PTO-948) attached In the Office action of the drawings in the front (not the backer 1.121(d). ERIAL must be submitted. Note:	ments CE OF
6. Interview S	, , , , , , , , , , , , , , , , , , , ,	2)
	Ginette Peralta Copears on the cover sheet with IS (OR REMAINS) CLOSED in IS (OR REMAINS) CLOSE	D9/503,638 PRALL ET AL. Examiner Art Unit Ginette Peralta 2814 Spears on the cover sheet with the correspondence address IS (OR REMAINS) CLOSED in this application. If not included 15) or other appropriate communication will be mailed in due cours (RIGHTS. This application is subject to withdrawal from issue at the 13 and MPEP 1308. By the Examiner. Under 35 U.S.C. § 119(a)-(d) or (f). Bave been received. Bave been received in Application No Brown documents have been received in this national stage application for this application. Brown of this communication to file a reply complying with the requirer NMENT of this application. Brownitted. Note the attached EXAMINER'S AMENDMENT or NOTIC gives reason(s) why the oath or declaration is deficient. Brown September 1 Comment or in the Office action of the R 1.84(c)) should be written on the drawings in the front (not the back in the header according to 37 CFR 1.121(d). Brown THE DEPOSIT OF BIOLOGICAL MATERIAL. Deposit of BIOLOGICAL MATERIAL must be submitted. Note that the properties of the pr

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Steven Ormiston on 2/20/04.

The application has been amended as follows:

Cancel claims 30-33.

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of the claims is the inclusion of the feature of a semiconductor device having a gate electrode, a capacitor contact region adjacent to one side of the gate electrode, a bit line contact region adjacent to the other side of the gate electrode, a first dopant implant in the capacitor contact region and bit line contact region, and the first implant physically contacting the capacitor contact region, and a second dopant implant in only the capacitor contact region which is not anticipated nor rendered obvious over the prior art of record. The prior art made of record Katayama discloses a first dopant implant in the capacitor and bit line contact regions that is not in physical contact with the capacitor contact region and a diffusion region only in the capacitor contact region, it does not render obvious the feature of a first and a second

dopant implants in the capacitor contact region and the first dopant implant being in physical contact with the capacitor contact region.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ginette Peralta whose telephone number is (571)272-1713. The examiner can normally be reached on Monday to Friday 8:00 AM- 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571)272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).